



Fw: Osh Kosh - P limitation
John Wiemhoff to: Richard.Sachs

10/22/2012 01:55 PM

FYI

----- Forwarded by John Wiemhoff/R5/USEPA/US on 10/22/2012 01:54 PM -----

From: David Werbach/R5/USEPA/US
To: Stephen Jann/R5/USEPA/US@EPA,
Cc: John Wiemhoff/R5/USEPA/US@EPA, kuefler.patrick@epa.gov
Date: 10/22/2012 01:48 PM
Subject: Re: Osh Kosh - P limitation

Lake Winnebago is listed on the 2012 draft list as impaired due to low DO, eutrophication, and turbidity. Pollutant cause are sediment and total phosphorus. As far as I can tell, the Fox River between Lake Butte Des Morts and Lake Winnebago is not listed for TP, only for PAH just upstream of Lake Winnebago (a 1/2 mile stretch).

Stephen Jann Thanks, John. I'm leaning heavily toward the po... 10/22/2012 01:28:05 PM

From: Stephen Jann/R5/USEPA/US
To: John Wiemhoff/R5/USEPA/US@EPA,
Cc: David Werbach/R5/USEPA/US@EPA, kuefler.patrick@epa.gov
Date: 10/22/2012 01:28 PM
Subject: Re: Osh Kosh - P limitation

Thanks, John. I'm leaning heavily toward the position that the limit needs to be set based on the L. Winnebago WQC. The Fox River data indicate that the river does not have capacity to assimilate P prior to the river entering the lake. Please check with WWB to see if the lake is on the State's 303(d) list.

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John Wiemhoff Attached is the second question/my response fol... 10/22/2012 01:13:43 PM

From: John Wiemhoff/R5/USEPA/US
To: Stephen Jann/R5/USEPA/US@EPA,
Cc: David Werbach/R5/USEPA/US@EPA, kuefler.patrick@epa.gov
Date: 10/22/2012 01:13 PM
Subject: Osh Kosh - P limitation

Attached is the second question/my response following our WI Phosphorus meeting this morning. The final resolution may be dependent upon Dave Werbach's response to the first question.

Per the WQBEL documentation provided by WDNR ,

1. WQ criteria for the Fox River in vicinity of Osh Kosh is **100 ug/l** (0.1 mg/l)
2. The median of 13 sampled P concentrations taken in the Fox River near the Osh Kosh outfall = **85 ug/l** (0.085 mg/l)
3. The $7Q_2$ in the Fox River = **1,350 cfs**
4. The design flow of the Osh Kosh WWTP is 20 MGD (**31 cfs**)
5. The WDNR calculated P WQBEL, based on the mass balanced calculations using the above data, is **0.75 mg/l**.

Based on the above, and information on the historical WWTP sampled P levels of 0.67 mg/l from the WWTP's effluent, the plant can meet the WQBEL (proposed effluent limitation) of 0.75 mg/l.

If Lake Winnebago (1.25 miles downstream) drives the effluent P limit (where the effluent would have to meet a .04 mg/l limit), it would be a major game changer .

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----- Forwarded by John Wiemhoff/R5/USEPA/US on 10/22/2012 12:52 PM -----

From: John Wiemhoff/R5/USEPA/US
To: David Werbach/R5/USEPA/US@EPA,
Cc: Stephen Jann/R5/USEPA/US@EPA
Date: 10/22/2012 12:34 PM
Subject: Re: Request for Information

Thanks again Dave .

The discharge of Osh Kosh's primary WWTP effluent pipe occurs within the Fox River , downstream of Lake Buttes des Morts, but upstream about 1.25 miles from Lake Winnebago.

Steve Jann suggested that I check on 2 things:

1. Which WQ standards for P would apply based on the 1.25 mile upstream of Lake Winnebago ? A) the river WQ standard for the Fox River , or 2) the WQ standard for Lake Winnebago (listed as 0.04 mg./l)
2. Check on the levels of P in the Fox River (at appropriate low level condition within the vicinity of the Osh Kosh outfall) which would be used for the mass balance to assist in the determination of what the WQBEL for P should be for the Osh Kosh effluent.

Thanks

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David Werbach

From: John Wiemhoff/R5/USEPA/US To: Werba...

07/27/2012 08:37:08 AM

From: David Werbach/R5/USEPA/US
To: John Wiemhoff/R5/USEPA/US@EPA,
Date: 07/27/2012 08:37 AM
Subject: Re: Request for Information

John Wiemhoff

David: I am reviewing a permit of Osh Kosh WI...

07/26/2012 09:50:08 PM

From: John Wiemhoff/R5/USEPA/US
To: Werbach.david@Epa.gov,
Date: 07/26/2012 09:50 PM
Subject: Request for Information

David:

I am reviewing a permit of **Osh Kosh WI which discharges to the Fox River immediately before it enters Lake Winnebago .**

1. Do you know if there is a TMDL for this area and downstream stretch of river and Lake ?

A TMDL was approved for the Lower Fox starting at the outlet from Lake Winnebago . We did not develop any specific WLAs for any facilities upstream of the lake , but the TMDL is based upon a general 40% reduction in phosphorus and TSS loads in Lake Winnebago .

2. Is this stretch an impaired water and if so , what are the impairments?

Lake Winnebago is impaired for total phosphorus , TSS, mercury and PCBs . The Fox River at Oshkosh is listed for PAH 's

Thanks

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